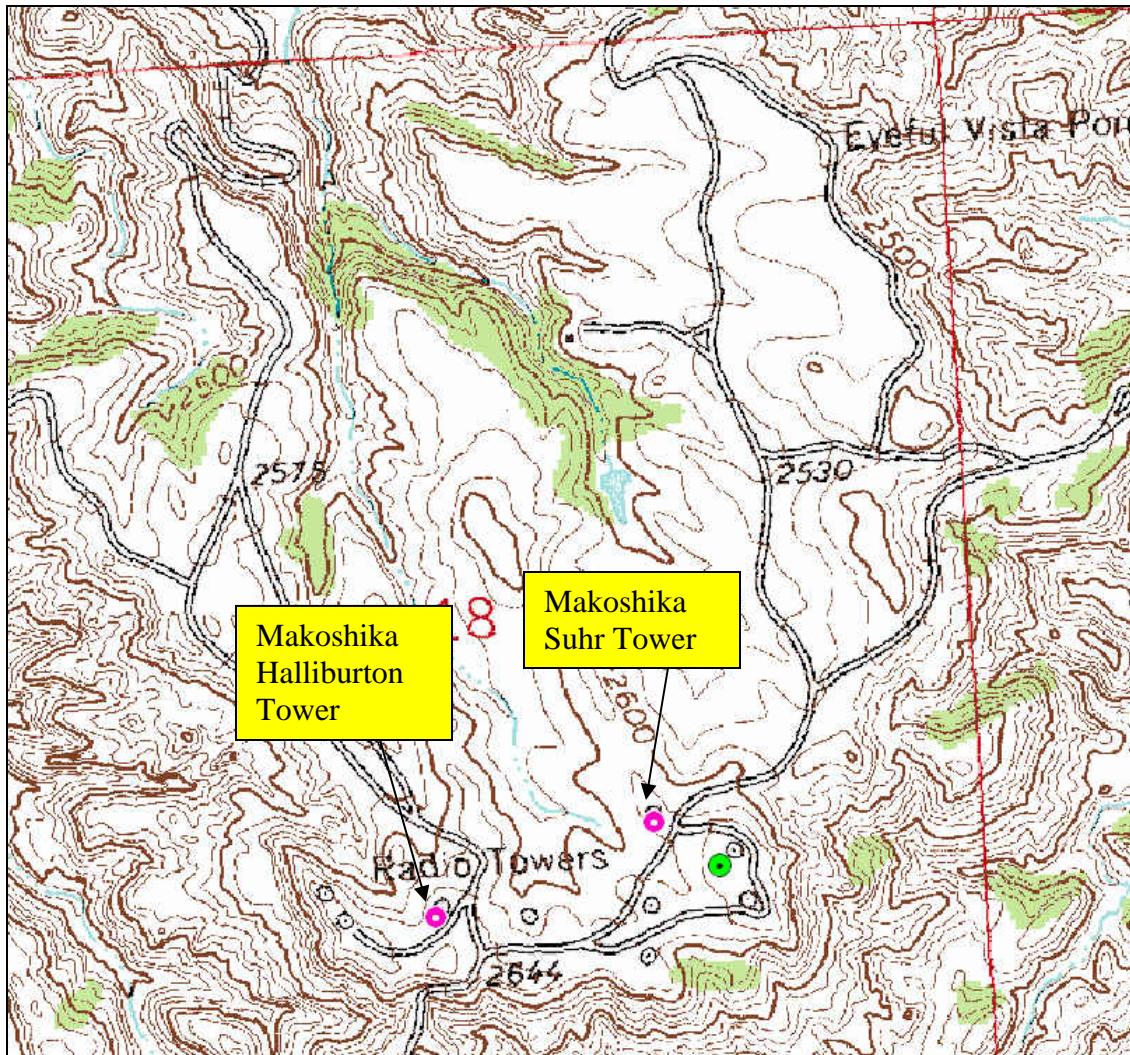


#### 4.3.14 Other Sites Surveyed

In a few cases, sites were surveyed that are not currently being used by any of the county stakeholders. These are potential sites for the use of the consortium.

##### 4.3.14.1 Dawson County



**Figure 60 – Potential Makoshika Sites Surveyed**



**Site Name:** Makoshika Halliburton Tower

*No picture.*

**Area:** Glendive, MT

**Location:** 3.5m SSE of Glendive, MT - Makoshika State Park

**Land Owner:** State of Montana

**Ground Elevation:** 2652'

**Latitude:** N47 03' 06.0"

**Longitude:** W104 40' 42"

**Status:** In Use

**Rent:**

**Tower Height:** 300'

**Building Type:** Metal

**Building Size:** 6x8

**Approximate Space Used (%):**30%

**Primary Power:** 120/240 single phase 100 amp

**Backup Power:** User-supplied batteries

**Telephone Available?** No

**Tower Users:** Lower Yellowstone Radio Club, Bridget Pipeline LLC

**Is Combiner Used And Describe:** No

**General Comments:**

**Survey Completed By:** TAB Electronics

**Completed Date:** Jul-05

**Tower Manufacturer:**

**Tower Model:**

**Tower Owner:**

**Age (Years):**

**Tower Type:** Guyed

**Fall Protection:** None

**Climbing Device:** Tower Rungs - Steel Bars

**# Of Guy Wires:** 15

**# Of Legs:** 3

**Leg Spacing:** 18"

**Grounding System:** Rod at base.

**Other Towers Nearby?**

**Access In Summer:** 2-wheel Drive

**Access In Winter:** 4-wheel Drive

**Criticality:** Not Critical

**Meets FCC OET 65?**

**Meets Antenna Loading?**

**Microwave In Use?** No

**Describe:**

**Microwave Capable?** Unknown



**Describe:**

**Radio 1:** Repeater

**Antenna Type:**

**Antenna Height:**

**Frequencies In Use:** TX - 146.76, RX - 146.16

**User Agency:** Lower Yellowstone Amateur Radio Club

**Filter, Duplexer, Etc.:**

**P25?** Unknown

**Other:**

**Radio 2:** Repeater

**Antenna Type:**

**Antenna Height:**

**Frequencies In Use:** TX - 153.545, RX - 158.280

**User Agency:** Bridger Pipeline, LLC

**Filter, Duplexer, Etc.:**

**P25?** Unknown

**Other:**



**Site Name:** Makoshika Suhr Tower

*No picture.*

**Area:** Glendive, MT

**Location:** 3.5m SSE of Glendive, MT - Makoshika State Park

**Land Owner:** State of Montana

**Ground Elevation:** 2620'

**Latitude:** N47 03' 10"

**Longitude:** W104 40' 26"

**Status:** In Use

**Rent:**

**Tower Height:** 300'

**Building Type:** 2 block buildings

**Building Size:** 8x8

**Approximate Space Used (%):** 20 each

**Primary Power:** 120/240 single phase

**Backup Power:** User-supplied batteries

**Telephone Available?** No

**Tower Users:** TAB Electronics, Bridget Pipeline LLC

**Is Combiner Used And Describe:** No

**General Comments:** Potential Site.

**Survey Completed By:** TAB Electronics

**Completed Date:** Jul-05

**Tower Manufacturer:**

**Tower Model:**

**Tower Owner:** TAB Electronics

**Age (Years):**

**Tower Type:** Guyed

**Fall Protection:** None

**Climbing Device:** Tower Rungs - Steel Bars

**# Of Guy Wires:** 15

**# Of Legs:** 3

**Leg Spacing:** 18"

**Grounding System:** Rods at base.

**Other Towers Nearby?**

**Access In Summer:** 2-wheel Drive

**Access In Winter:** 4-wheel Drive

**Criticality:** Not Critical

**Meets FCC OET 65?**

**Meets Antenna Loading?**

**Microwave In Use?** No

**Describe:**

**Microwave Capable?** Unknown



**Describe:**

**Radio 1:** Base

**Antenna Type:** 8-element open dipole

**Antenna Height:** 280-320'

**Frequencies In Use:** 151.955

**User Agency:** TAB Electronics

**Filter, Duplexer, Etc.:** None

**P25?** Unknown

**Other:**

**Radio 2:** Base

**Antenna Type:**

**Antenna Height:**

**Frequencies In Use:** 158.280, 158.430, 153.395, 153.545

**User Agency:** Bridger Pipeline, LLC

**Filter, Duplexer, Etc.:** None

**P25?** Unknown

**Other:**



### 4.3.14.2 Richland County



Figure 61 – Potential Richland Sites Surveyed

**Site Name:** KB Oil Tower



**Area:** Sidney, MT

**Location:** 11m WNW of Sidney, MT

**Land Owner:** Obergfell Trust

**Ground Elevation:** 2608'

**Latitude:** N47 46' 30.5"

**Longitude:** W104 21' 54.6"

**Status:** In Use

**Rent:**

**Tower Height:** 180'

**Building Type:** Wood frame, steel covered

**Building Size:** 11x15

**Approximate Space Used (%):**40

**Primary Power:** 120/240 single phase

**Backup Power:** User-supplied batteries

**Telephone Available?** No

**Tower Users:** Amateur radio club, Plains Marketing, GL Rental, Franz Construction, Plains All American Pipeline, First Energy Service Company



**Is Combiner Used And Describe:** Macom 7Z-522-5XB

**General Comments:**

**Survey Completed By:**

**Completed Date:**

**Tower Manufacturer:**

**Tower Model:**

**Tower Owner:**

**Age (Years):**

**Tower Type:**

**Fall Protection:**

**Climbing Device:**

**# Of Guy Wires:**

**# Of Legs:**

**Leg Spacing:**

**Grounding System:**

**Other Towers Nearby?**

**Access In Summer:**

**Access In Winter:**

**Criticality:**

**Meets FCC OET 65?**

**Meets Antenna Loading?**

**Microwave In Use?**

**Describe:**

**Microwave Capable?**

**Describe:**

**Radio 1:** Repeater

**Antenna Type:** Diamond PVC & aluminum stick

**Antenna Height:** 96-110'

**Frequencies In Use:** TX - 147.38, RX - 147.98

**User Agency:** Lower Yellowstone Amateur Radio Club

**Filter, Duplexer, Etc.:** 4-cavity duplexer

**P25?** Unknown

**Other:**

**Radio 2:** UHF Repeater

**Antenna Type:** Fiberglass stick

**Antenna Height:** 50'

**Frequencies In Use:** TX - 444.550, RX - 449.550

**User Agency:** Lower Yellowstone Amateur Radio Club

**Filter, Duplexer, Etc.:** Compact duplexer

**P25?** Unknown

**Other:**





**Radio 3: Base**

**Antenna Type:** Metal whip

**Antenna Height:** 128-144'

**Frequencies In Use:** 151.985

**User Agency:** Franz Construction

**Filter, Duplexer, Etc.:** None

**P25?** Unknown

**Other:**

**Radio 4: UHF Link**

**Antenna Type:** Yagi

**Antenna Height:** 30'

**Frequencies In Use:** TX - 452.825, RX - 457.825

**User Agency:** Franz Construction

**Filter, Duplexer, Etc.:** None

**P25?** Unknown

**Other:**

**Radio 5: Repeater**

**Antenna Type:** Open dipole array

**Antenna Height:** 146-166'

**Frequencies In Use:** TX - 153.095, RX - 158.295

**User Agency:** Plains All American Pipeline

**Filter, Duplexer, Etc.:** Compact Duplexer

**P25?** Unknown

**Other:**

**Radio 6: Repeater**

**Antenna Type:** Fiberglass stick

**Antenna Height:** 180-199'

**Frequencies In Use:** TX - 452.000, RX - 457.000

**User Agency:** First Energy Service Company

**Filter, Duplexer, Etc.:** UHF Combiner System

**P25?** Unknown

**Other:**

**Radio 7: Repeater**

**Antenna Type:** Fiberglass stick

**Antenna Height:** 180-199'

**Frequencies In Use:** TX - 464.900, RX - 469.900

**User Agency:** GL Rental

**Filter, Duplexer, Etc.:** TX - UHF Combiner, RX - None

**P25?** Unknown

**Other:**



**Radio 8:** VHF.UHF Scada System

**Antenna Type:** UHF Yagi, VHF fiberglass stick

**Antenna Height:** UHF - 82', VHF - 180-199'

**Frequencies In Use:** UHF - 456.100, VHF - 154.47875

**User Agency:** Plains Marketing

**Filter, Duplexer, Etc.:** None

**P25?** Unknown

**Other:**